C O P Y

AKAI
professional

ME80P

MIDI PROGRAMMABLE PATCH BAY

WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

Operator's Manual
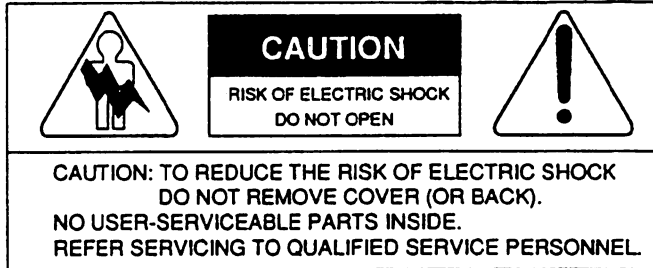
AKAI
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ME80P

MIDI PROGRAMMABLE PATCH BAY

Software Version 1.0

Operator's Manual

**To show our support for the protection of the earth's environment,
this manual has been printed on recycled paper.**

WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with the arrowhead symbol superimposed across a graphical representation of a person, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

FOR CUSTOMERS IN THE U.K.

Important for your safety - The flex supplied with the ME80P will have two wires as shown in the illustration.

INPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter "N" or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter "L" or coloured red.
* Do not connect any wire to the larger pin marked "E" or "⊥" when wiring a plug. Ensure that all terminals are securely tightened and that no loose strands of wire exist.

N   L

Blue   Brown
(Neutral)   (Live)
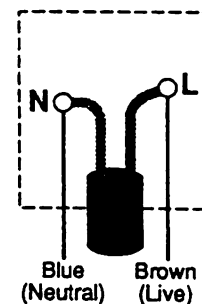
FÜR KUNDEN IN DER BUNDESREPUBLIK DEUTSCHLAND

Bescheinigung von AKAI

Hiermit wird bescheinigt, daß das Gerät AKAI

ME80P

in Übereinstimmung mit den Bestimmungen der

Amtsblattverfügung 1046/1984

funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

AKAI ELECTRIC CO., LTD.

FCC warning

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications In Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation, if this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.
Relocate the computer with respect to the receiver.
Move the computer away from the receiver.
Plug the computer into a different outlet so that computer and receiver are different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:
"How to Identify and Resolve Radio – TV interference Problems".
This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

Avis pour les acheteurs canadiens du ME80P

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class B prescrites dans le Réglement sur le brouillage radioélectrique édicté par le ministere des Communications du Canada.

LITHIUM BATTERY

This product uses a Lithium Battery for memory back-up. The lithium battery should only be replaced by qualified service personnel.
Improper handling may cause risk of explosion.

BEFORE STARTING OPERATIONS

Power requirements

Power requirements for electrical equipment differ from area to area.

Please ensure that your ME80P meets the power requirements in your area. If in doubt, consult with a qualified electrician.

220V-230V, 50Hz for Europe except U.K.

240V, 50Hz for U.K. and Australia

120V, 60Hz for U.S.A. and Canada

Turn off the power after use.

Turn the power off after use to be safe and to conserve energy. Do not leave the ME80P connected to AC socket if it is not going to be used for a while.

How to handle the AC power cord

Never pull the power cord itself. Or, it may result in disconnections. Always hold the plug cover to remove it from the socket for safety purposes and to prevent electrocutions. Do not touch the AC power cord/plug cover with wet hands.

Prevent from spilling water or dropping metal objects in the ME80P.

Watch carefully especially for mischievous acts by children. Do not drop needles, hairpins, coins, or other metal objects, or flammable objects such as paper into the ME80P.

Modification is dangerous and may result in the ME80P malfunctioning.

Contact your "AKAI professional" dealer for all the after-sales servicing.

About the location

To promote optimal use of the ME80P, be conscious of where it is placed. The following locations are not advisable:

1. Around heaters or heat releasing machines, and places exposed to direct sunlight
2. Humid and dusty places
3. Locations easily affected by vibrations
4. Locations with no air circulation
5. Sloped or slanted locations
6. Extremely cold places

The ME80P's affect on other electrical equipment

The ME80P may cause TV and radio interference noise when used close to TVs and radios. In such cases, move the ME80P away from those units.

Be careful of aerosol spray insecticides.

Be careful since insecticides may damage the surface of the panel.

Cleaning of the cabinet and panel surface

Wipe dust off with a dry cloth, and if it is heavily soiled, wipe the ME80P with a soft cloth which is slightly damp with a dilution of dish washing soap or a neutral detergent. Refrain from using the chemical solvents such as paint thinner or benzine that may damage the finish.

About relocating the ME80P

Always disconnect the ME80P from AC socket and any other units before moving the ME80P.

Back Up Battery

The ME80P contains a lithium battery for memory back up while the power is turned OFF. Battery life is approximately 3 years, with the following warning being displayed at the time the power is turned ON, if the battery voltage is low:

```
┌─────────────────┐
│                 │
│     ΓL Π        │
│                 │
└─────────────────┘
```

When this message is displayed, contact your nearest "AKAI professional" dealer to have the battery replaced with a new one. Additionally, when this message is shown, all the bank memories have been initialized to factory presets.

After-sales service

Please consult the after-sales service department of the dealer where you purchased the ME80P for details concerning repairs during the Warranty Period and other after-sales servicing. If you are travelling or unable to reach that dealer, contact the nearest "AKAI professional" dealer.

TABLE OF CONTENTS

1. INTRODUCTION

Thank you for purchasing the AKAI ME80P. The ME80P is an 8 IN /10 OUT MIDI Programmable Patch Bay with various functions designed to make the interchanging flow of MIDI signals more efficient.

Before using this device, please read the Operator's Manual thoroughly, and keep it in a convenient location together with the warranty card for quick reference.

ME80P FEATURES

- You can patch 8 different MIDI Input signals to 10 different MIDI OUT Terminals as desired.

- MIDI Patch Monitor function allows you to verify MIDI signal flows in real time. Easy-to-read LED display gives clear visibility in all kinds of lighting environments.

- Patching Programs can be memorized in up to128 Banks.

- Merge and route any 2 MIDI IN signals of your choice, with separate routing as well. In addition, these MIDI IN signals can be assigned exclusively to each Bank.

- Equipped with MIDI Filtering function which allows you to screen out unnecessary MIDI messages.

- Control of Banks via Foot Switch.

- Easy-to-Handle EIA 1 U size/Rack Mount Type.

2. PANEL DESCRIPTION

FRONT PANEL
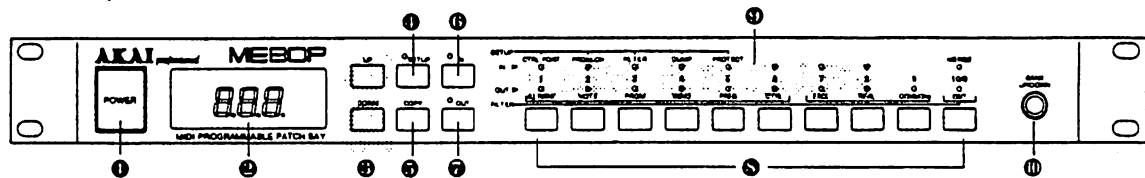
❶ Power Switch

On/Off switch for power supply. When power is turned On, it will automatically enter the Bank Mode, and < Bank No. : 001 > will be displayed.

❷ Display

Displays various data (Bank No., MIDI Channel, etc.) depending on the current Mode.

❸ Up/Down Key

Used to change Bank No.s, and assign various values in each Mode.

❹ Set Up Mode Key

When this key is pressed, the LED located above the key will light up, and it will enter the Set Up Mode.

❺ Copy Mode Key

Used to enter the Copy Mode to perform Copy function.

❻ Patch IN Mode Key

When this key is pressed, the LED located above the key will light up, and it will enter the Patch IN Mode.

❼ Patch OUT Mode Key

When this key is pressed, the LED located above the key will light up, and it will enter the Patch OUT Mode.

❽ No. 1 - 10 (0) Keys

In the Bank Mode, these are used to select the Bank No., to select parameters in the Set Up Mode, and to assign MIDI IN/OUT in other Modes.
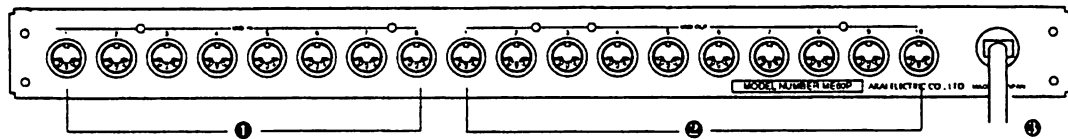
❾ MIDI IN/OUT 1-10 LEDs

Various situations in each Mode are indicated by lighting or blinking status.

❿ Bank Up/Down Jack

This Jack is used for connection of foot switch with which to change Bank No.s.

REAR PANEL

❶ MIDI IN 1-8

Input Terminals for MIDI signals. For input of signals from the MIDI OUT of a sequencer, keyboard, etc.
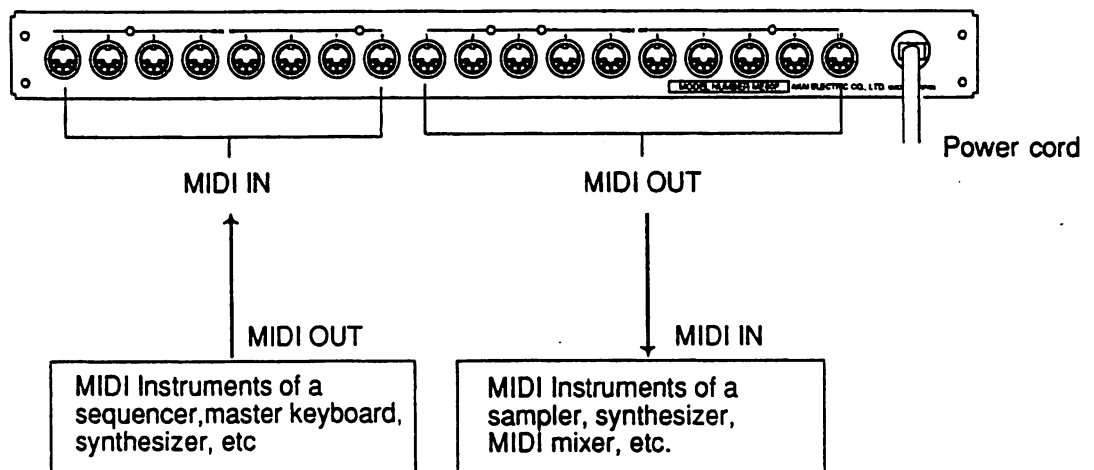
❷ MIDI OUT 1-10

Output Terminals for MIDI signals. The MIDI signals transmitted from these terminals are input to the MIDI IN of a sampler, sound module, keyboard, etc. Basically, the MIDI signals transmitted (THRU) from these terminals will equal those signals recieved via MIDI IN.

❸ Power Cord

Connect the cord's plug to an AC outlet.

CONNECTIONS

Refering to the following diagram, connect the ME80P to your system.

Power cord

MIDI IN   MIDI OUT

MIDI OUT   MIDI IN

| MIDI Instruments of a sequencer, master keyboard, synthesizer, etc | MIDI Instruments of a sampler, synthesizer, MIDI mixer, etc. |

* Connection must always be done while ALL connected devices are turned OFF. Also, MIDI cables must always be used for MIDI IN/OUT connections.

# 3. OVERALL CONCEPTS OF THE ME80P

Now, to get the overall idea of the ME80P, please read the following explanatory material which will assist in practical applications and also help to make the best possible use of your MIDI Patch Bay.

PATCHING AND BANKS

You can transmit 8 different MIDI Input signals via 10 different MIDI OUT Terminals, in any patching arrangement you like. For example, the following diagram shows the signal input to MIDI IN 1 as having been "patched" to transmit via MIDI OUT1, 2, and 3. The signal coming in through MIDI IN 2 is patched to MIDI OUT 7, and MIDI IN 3's entering signals are patched to MIDI OUT 4.
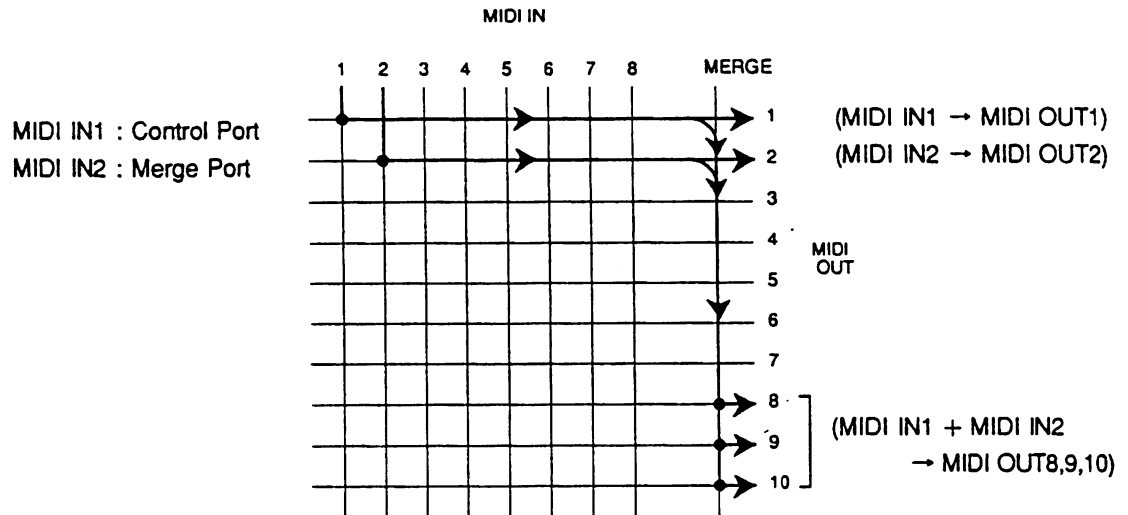
MIDI IN
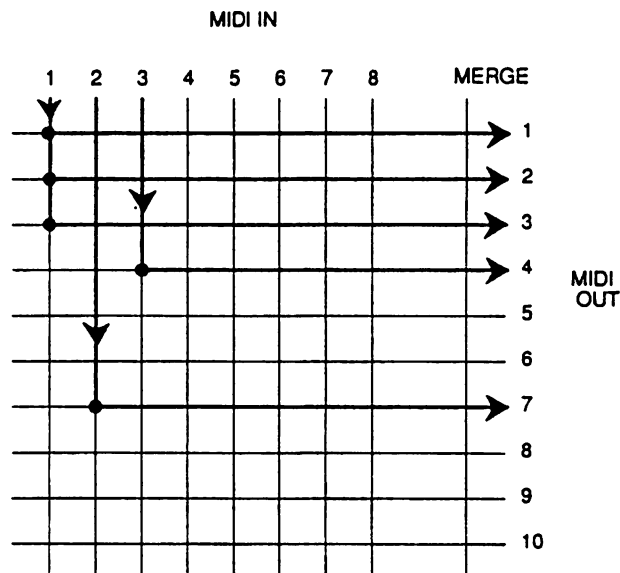
Within the ME80P, patching set ups like the one described above, can be memorized to a Bank as one "Program". 128 Banks (Bank No.s 001-128) are available for this purpose, so you can easily recall any set up from a maximum of 128 Banked Programs.

Bank No. 128

Patching Program

Bank No. 001
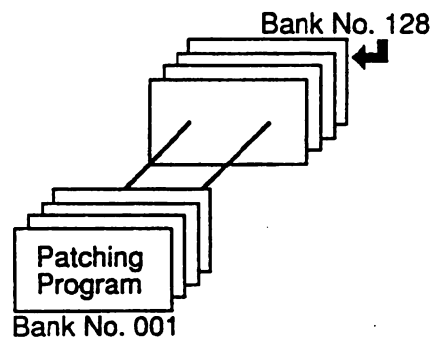
CONTROL AND MERGE PORTS

The Control Port is the INPUT which is designated to receive Program Changes and/or Bulk Data, etc., from outside sources, and for instance, allows you to switch Bank No.s by the external MIDI control. Any one of the 8 MIDI IN Terminals can be selected as a Control Port, however, a different Control Port can not be set to each of the Banks.

The Merge Port is the INPUT designated to merge data to the Control Port. For example, you can merge two different signals, say, one from MIDI IN Terminal which is specified as a Control Port, and another from MIDI IN Terminal which is specified as Merge Port, and then, route them as a one signal. The Merge Port can be assigned separately to each Bank.

MIDI IN1 : Control Port
MIDI IN2 : Merge Port

(MIDI IN1 → MIDI OUT1)
(MIDI IN2 → MIDI OUT2)

(MIDI IN1 + MIDI IN2
→ MIDI OUT8,9,10)

MIDI FILTER

This is the Filter function which screens unnecessary data from the MIDI information being received via MIDI IN, which has been specified as Control and Merge Ports. This Filter can be assigned specifically to each channel for the Channel message (NOTE ON/OFF, PROGRAM CHANGE, etc.), and also for the System message (REAL TIME/COMMON MESSAGE, etc.). However, the channel number is disregarded for the System messages. The Filter function cannot be assigned differently to each Bank.
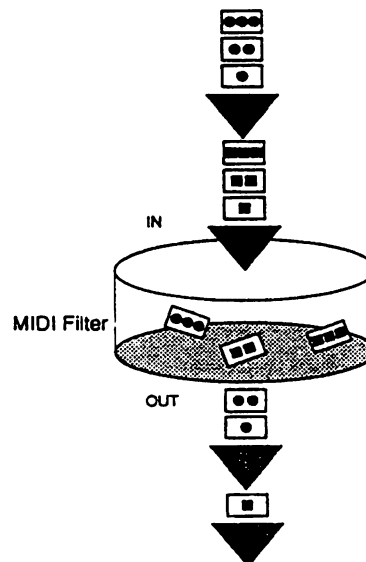
5 MODES OF THE ME80P

There are 5 different Modes available for operation within the ME80P. Each of their basic roles
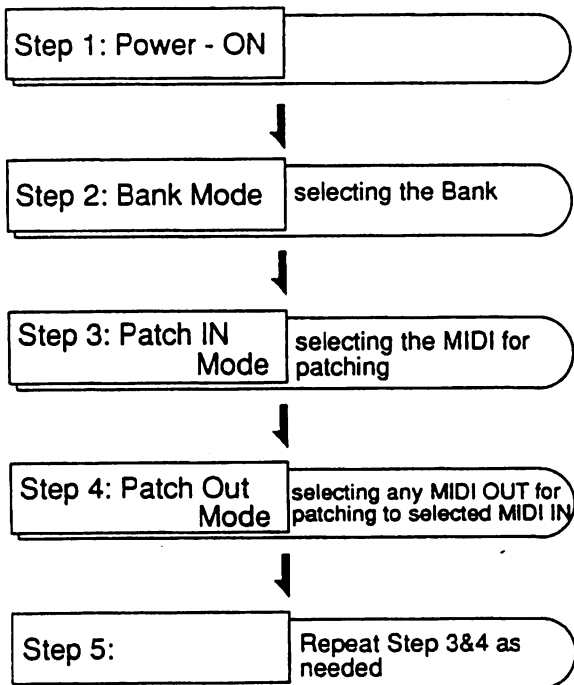are described as follows:

Bank Mode   This is the mode for actually utilizing the 128 Patching Programs by changing
                     Banks. Also, the MIDI Patch Monitor function is available for use in this mode.

Set Up Mode   In this mode, Control Port, Program Change Receive Channel, MIDI Filter ON/
                     OFF, Data Dump, and Protect ON/OFF can be programmed.

Copy Mode   Allows you to copy the Patching Program contained in a certain Bank to another
                     Bank.

Patch IN Mode   Basically, the mode used for selecting a MIDI IN, and assigning Merge Port
                     for patching. Also when in this mode, you can verify which MIDI OUT is
                     currently patched to MIDI IN selected.

Patch OUT Mode   This is the mode for patching any MIDI OUT to the MIDI IN which has been
   selected in the Patch IN Mode.

(5 Modes)
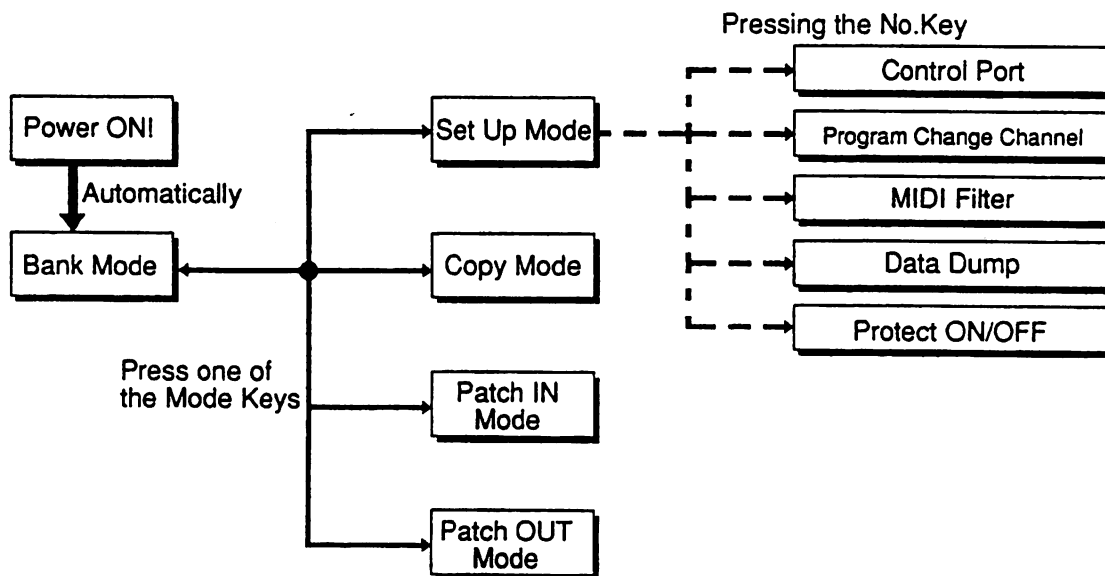
4. BASIC PATCHING OPERATIONS

Now, let's try some actual patching. First, we'll explain the most basic procedure which are shown in the following steps. If you start by copying the Data Sheet on page 25 and write out your plan beforehand, you will find it very helpful while patching or re-editing.

Step 1: Power - ON

↓

Step 2: Bank Mode | selecting the Bank

↓

Step 3: Patch IN Mode | selecting the MIDI for patching

↓

Step 4: Patch Out Mode | selecting any MIDI OUT for patching to selected MIDI IN

↓

Step 5: | Repeat Step 3&4 as needed

Step 1   Power - ON

Press the Power Switch after making sure all cables are properly connected. When power has been turned ON, ME80P will automatically be in the Bank Mode, and the display will show: <Bank No. 001>.
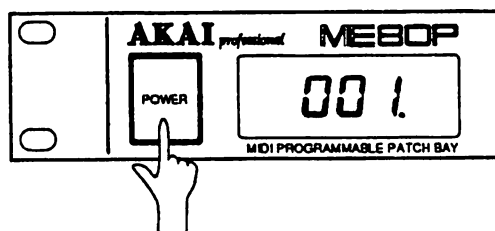
*   While you're patching, Protect must always be OFF. Your ME80P is initially set to Protect OFF at the factory, so if this is the first time you're patching, you don't need to change anything. Also, the status of Protect can be verified by the light of the Dot LED located in the display as shown below.
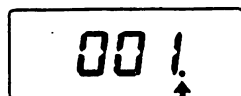
Dot lit : Protect OFF   Dot unlit : Protect ON

(Please refer to page 22 for further information on Protect ON/OFF.)

Step 2 Bank Mode (Selecting a Bank)

Select the Bank you wish to work with using the UP/DOWN Key. Every time you press the UP Key, the Bank No. will increase by one, and conversely, each time the DOWN Key is pressed the Bank No. will decrease by one. Also, if you press and hold either key, the No. will change in rapid succession upward or downward.
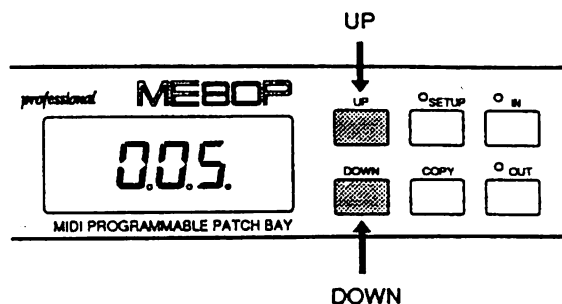
It is also possible to select a Bank No. directly using the IN/OUT Key. The Bank No. display is programmed for 3 digit spaces, therefore, in order to select Bank No. 57, you need to enter the numbers: 0, 5, and 7 respectively.
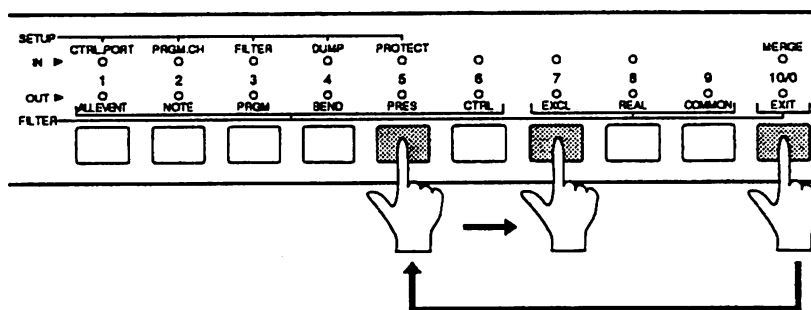

(Please refer to page17 for further information on the Bank Mode.)

Step 3 Patch IN Mode (Selecting MIDI IN)

Here, when the Patch IN Mode Key is pressed, the LED located above it will light up as it enters the Patch IN Mode. At the same time, the currently selected MIDI IN LED and the LED of MIDI OUT currently patched to that MIDI IN, will also light up.

* If you press the Patch IN Mode Key again, this will return you to the Bank Mode.

* Also, it is possible to change Bank No.s using the UP/DOWN Key while in this mode.

Currently selected MIDI IN LED will light up.

LED of MIDI OUT patched to selected MIDI IN will light up.

Version 1.0
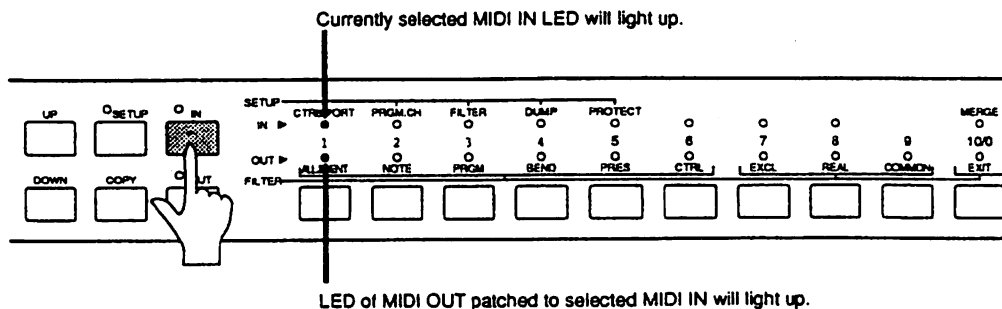
Next, select the MIDI IN you wish to patch using the No. Key. Each of the MIDI IN Terminals 1- 8 correspond to the No. Key's 1- 8.

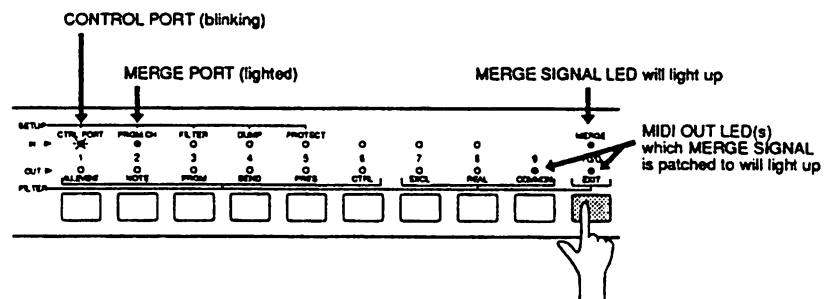ex. When selecting MIDI IN 5

LED of currently selected
MIDI IN will light up.

LED of MIDI OUT patched to
that MIDI IN will light up.

MIDI IN   1   2   3   4   5   6   7   8   Merge
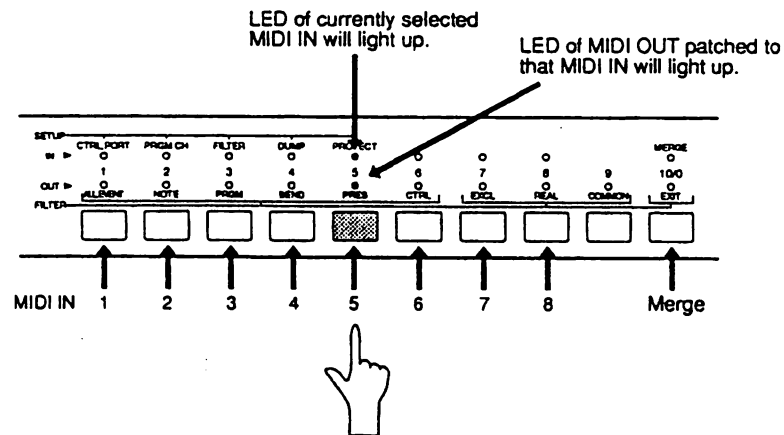
Merge Signals

The 10/0 Number Key corresponds to the Merge signal (the combined Control Port and Merge Port signals), and when this key is pressed, MIDI IN LED 10 (Merge) will light up and it is now possible to select the Merge signal. At this point, the blinking LED of MIDI IN indicates that it has been assigned for Control Port, and the LED of MIDI IN which is lighted is currently assigned for Merge Port. Of course the lighted MIDI OUT LED(s) indicate those which are assigned as Output(s) for the Merge signal.

*   Please refer to page 18- Set Up Mode, and page 23 - Patch In Mode, for further information on assigning Control and Merge Ports respectively.

CONTROL PORT (blinking)

MERGE PORT (lighted)

MERGE SIGNAL LED will light up

MIDI OUT LED(s)
which MERGE SIGNAL
is patched to will light up

*   When factory direct, ALL Banks (001-128) are assigned with the following Patch set up :

MIDI IN

<Same for all Banks>
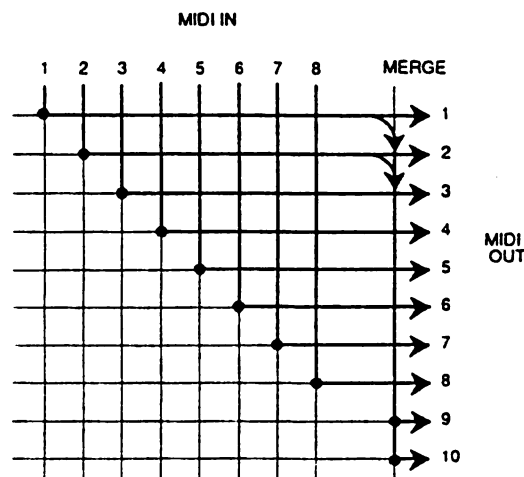
IN1→OUT1
IN2→OUT2

IN8→OUT8
MERGE→OUT9,10

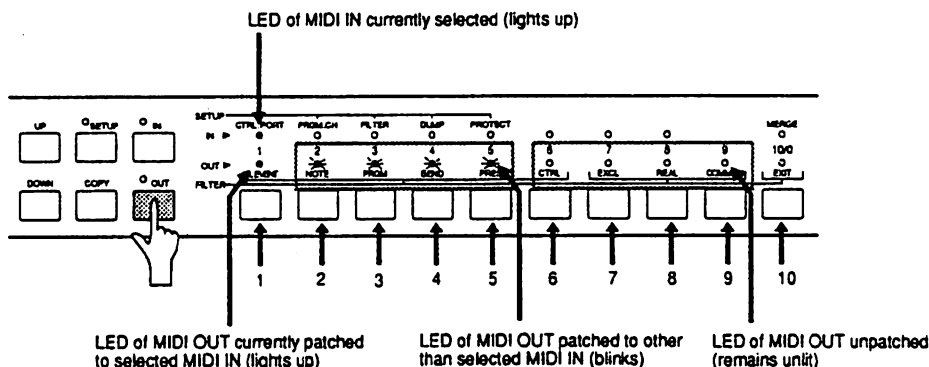|	
CONTROL PORT	: IN1
MERGE PORT	: IN2
MIDI FILTER	: OFF
PROGRAM CHANGE	: OFF
PROTECT	: OFF

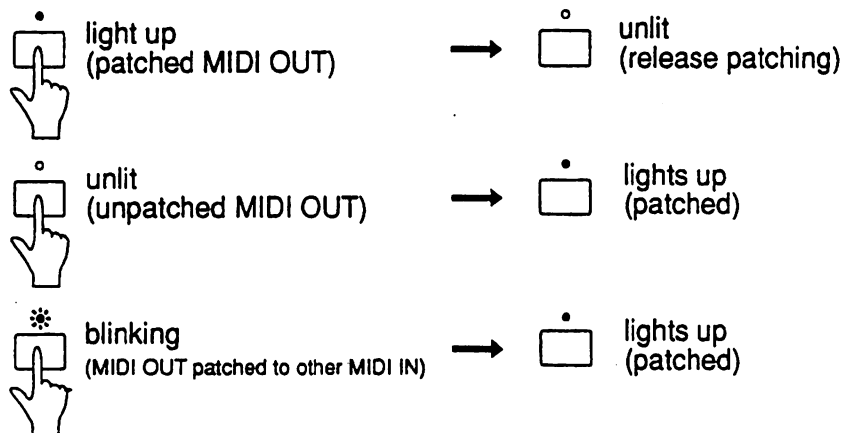**Step 4   Patch OUT Mode (Selecting MIDI OUT)**

Next, patch the MIDI OUT for the MIDI IN you already selected. When the Patch OUT Mode Key is pressed, the LED located above will light as it enters the Patch OUT Mode. Also at this point the LED of the selected MIDI IN and the LED of MIDI OUT patched to it will light up. The LED of MIDI OUT patched to other than selected MIDI IN will blink, and the LED of unpatched MIDI OUT will remain unlit.

* When factory direct, all MIDI OUT's have been patched, therefore, no LED's will remain unlit.

* When the Patch OUT Mode Key is pressed again, it will return to the Bank Mode, or if the Patch IN Mode Key is pressed, it will enter the Patch IN Mode.

LED of MIDI IN currently selected (lights up)

LED of MIDI OUT currently patched
to selected MIDI IN (lights up)

LED of MIDI OUT patched to other
than selected MIDI IN (blinks)

LED of MIDI OUT unpatched
(remains unlit)

MIDI OUT 1 - 10 correspond to the No. Keys 1 - 10, so select a MIDI OUT by pressing the appropriate No. Key, at which time the LED of that MIDI OUT will light up. Now, the patching is completed, and memorized directly to the selected Bank. With each press of the No. Key, you can alternately patch and unpatch a MIDI OUT which will be indicated by the MIDI OUT LED turned ON and OFF. Also, if you select the MIDI OUT (LED blinks) which has been patched to other than currently selected MIDI IN, that patching will be cancelled, and the status becomes that of a MIDI OUT (LED lights up) patched to currently selected MIDI IN .

* Of course, it is possible to patch more than1 MIDI OUT to a selected MIDI IN.

light up
(patched MIDI OUT) → unlit
(release patching)

unlit
(unpatched MIDI OUT) → lights up
(patched)

blinking
(MIDI OUT patched to other MIDI IN) → lights up
(patched)

Step 5   Continue patching by repeating steps 3 & 4 as desired. Of course, when you want to patch for another Bank, change the Bank as in Procedure 2.

* After patching has been completed, turn the Protect ON, to avoid erasure of important programs (refer to page 22 for further information.)

5. ADDITIONAL FUNCTIONS OF EACH MODE

Here, we will explain the other functions and operations for each of the modes individually. Firstly, after making sure of how to enter each mode as shown in the following chart, proceed to next explanation.
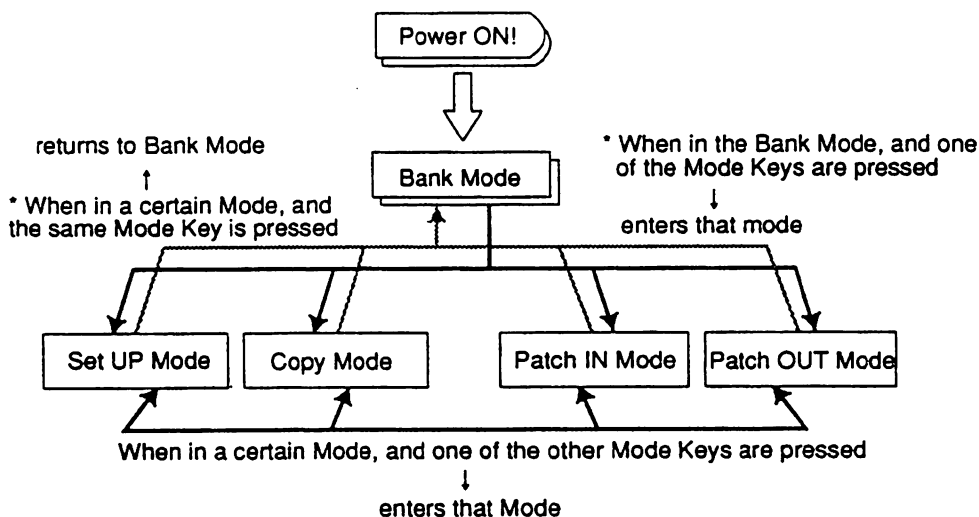

BANK MODE

MIDI Monitor

In the Bank Mode, the LED of MIDI IN which is receiving MIDI signal, and the LED of MIDI OUT patched to it, will light up in real time. And so, you can tell at a glance the status of the MIDI signal flows. This is helpful not only as a patching monitor of the ME80P, but also as a way to detect mis-settings or mis-connections of each MIDI device connected to the ME80P. The excellent visibility of LED displays also contribute much to efficient monitoring in all lighting conditions.

Foot Control

If you utilize the optional foot switch (normal closed type) you can change the128 Banks by foot in two different ways as described below:
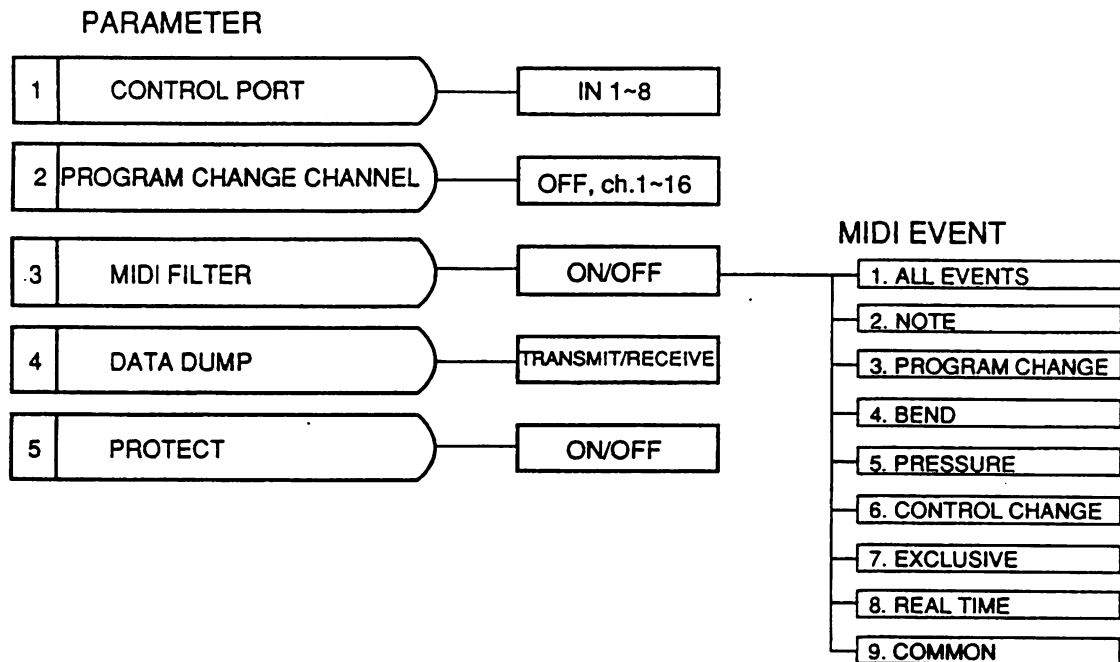
(1) Using one foot switch, you can change the Bank No. moving upward by one number at a time. Connect the plug of the foot switch to the Bank UP/DOWN Jack located on the Front Panel.

(2) Using two foot switches, it is possible to change Bank No.s upward or downward. In this case, use the cable wired as shown below:

* A Normally-Closed foot switch will open the circuit when its pedal is depressed.
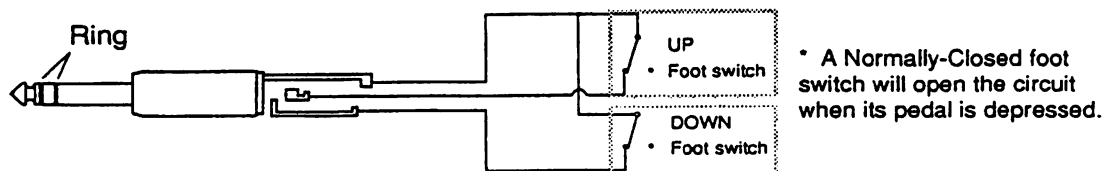
NOTE: *When changing Banks, the MIDI Control Change information: ALL NOTES OFF (No.123) and RESET ALL CONTROLLERS (No.121), is transmitted via the MIDI OUT which patching has been changed.*
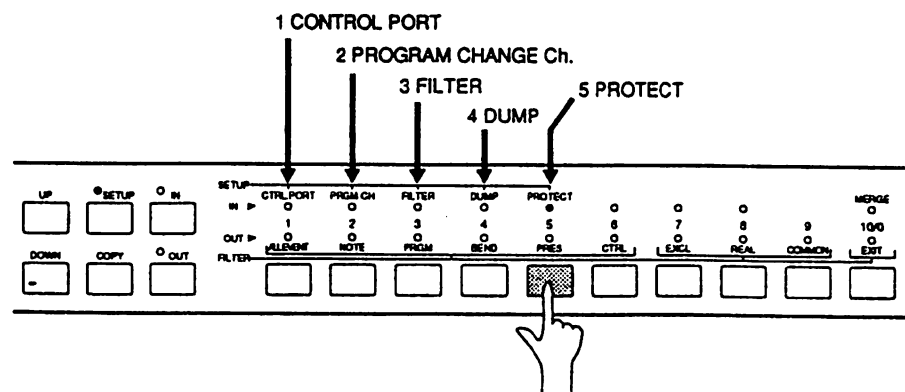
SET UP MODE

The Set Up Mode is used for assigning a variety of parameters starting with Control Port. The parameters available for assigning are listed below:

PARAMETER

1	CONTROL PORT	IN 1~8
2	PROGRAM CHANGE CHANNEL	OFF, ch.1~16
.3	MIDI FILTER	ON/OFF
4	DATA DUMP	TRANSMIT/RECEIVE
5	PROTECT	ON/OFF

MIDI EVENT

1. ALL EVENTS
2. NOTE
3. PROGRAM CHANGE
4. BEND
5. PRESSURE
6. CONTROL CHANGE
7. EXCLUSIVE
8. REAL TIME
9. COMMON

In Set Up Mode, each parameter corresponds to the No. Key located under that parameter name. So, by pressing a No. Key, you can assign its corresponding parameter, and the MIDI IN LED corresponding to the parameter will light up. Then, assign their values after consulting the following explanations of each parameter shown below:

Assigning parameters can only be done with Protect OFF, so we reccomend to read "Parameter 5: Assigning Protect ON/OFF" first (page 22).

ex.When selecting Parameter 5: Protect ON/OFF

* As ME80P enters the Set Up Mode, assigning CONTROL PORT will automatically be first selected.

Parameter 1 : Assigning Control Port

Control Port is INPUT to receive Program Change and/or Bulk Data from an external source as explained on page 11, which can be assigned to one of the 8 MIDI IN's. Using the UP/DOWN Key, select the desired No. of MIDI IN, which will be shown in the display. Now, Control Port is assigned for the selected MIDI IN.

ex. When assigning Control Port to MIDI IN 8
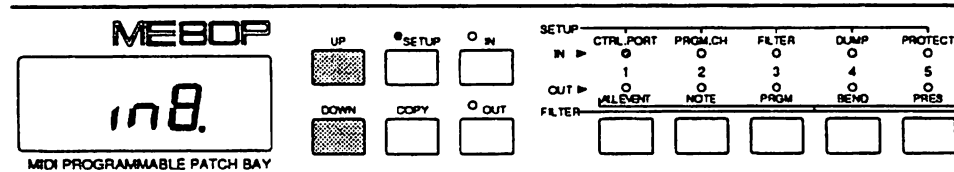
available value

in 1, in 2.......... in 8
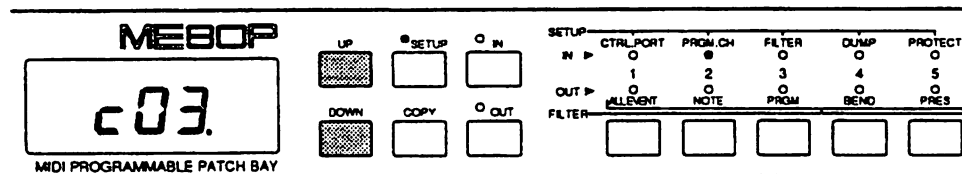
* It is not possible to assign Control Port for each Bank differently. Also, initial default assigning value is MIDI IN 1.

Parameter 2 : Assigning Program Change Channel

Assign the Program Change Channel which you wish received at Control Port here.
Using the UP/DOWN Key, assign any one of MIDI Channels 1, 2, 3........16, receive OFF.

ex. When assigning channel 3

available value

OFF ch1, ch2,..........ch16

* Initial default value for assigning is Receive OFF.

Parameter 3 : Assigning MIDI Filter

MIDI Filter is the parameter which pertains to Control Port and Merge Port as explained on page 11, screening unnecessary Events out of the MIDI information received. MIDI Events which are available for screening are shown next page:

Events for each MIDI Channel

1. All Events (All Channel Messages)
2. Note (Note ON/OFF)
3. Program Change
4. Bend (Pitch Bend)
5. Pressure (Channel/Polyphonic Key Pressure)
6. Control Change

### Events which are not relative to MIDI Channel:

7. Exclusive Message
8. Real Time Message (Start/Stop, MIDI Clock, etc.)
9. Common Message (Song Position Pointer, etc.)

Assign Events using the following Steps:

Step 1   Assigning Filter ON/OFF

When you enter this Parameter, assigning the Filter ON/OFF will be first displayed. When set to ON, the Filter will screen those MIDI Events currently assigned . Filter is assigned ON/OFF using the UP/DOWN Key.

ex. When assigning Filter: ON
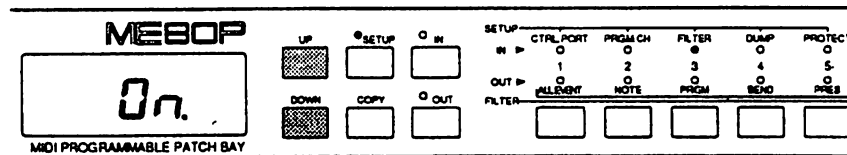

available value :

OFF, ON

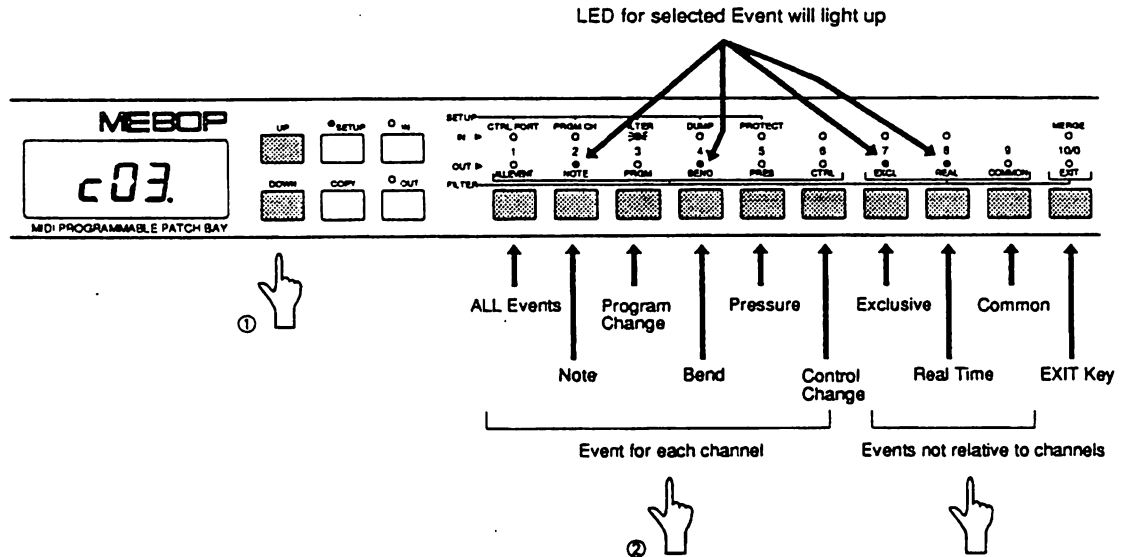* **The initial default value is Filter: OFF.**

Step 2   Assigning MIDI Events for Screening

Next, press the No. 3 Key (MIDI Filter) again, MIDI IN LED 3 will start to blink, and the display will change to show MIDI Channel.

At this point, the No. Keys 1-9 corresponding to MIDI EVENT names located on the Front Panel, will function as an EVENT ON/OFF Assigning Key. The MIDI OUT LED's 1- 9 will indicate each Events' assigning status, LED lit: Event is assiged/LED unlit: Event released. Also, the No.10 Key will function as an Exit Key to return to Step 1 - Assigning Filter ON/Off.

blink

press again
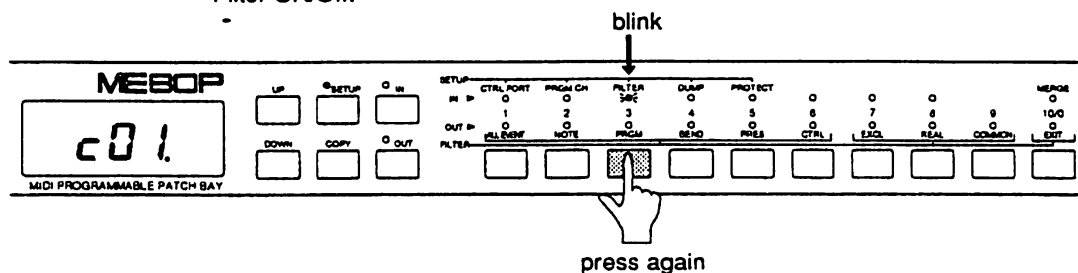
Now, ① select the channels using the UP/DOWN Key, and ② assign the desired Event you want to Filter using the No. Keys 1-9 (corresponding LED for the event will light up). Each time you press the No. Key, the Event will alternately be assigned (LED lit) and released (LED unlit).
Of course, it is possible to assign more than one MIDI EVENT at a time. Also, events not related to MIDI Channels, are assigned without refering to the channel display.


LED for selected Event will light up

ALL Events | Program Change | Pressure | Exclusive | Common

Note | Bend | Control Change | Real Time | EXIT Key

Event for each channel | Events not relative to channels

* **The initial default value for All Events is: OFF.**

Parameter 4 : Data Dump

This function allows you to transmit or receive the Patching data, and/or Set Up data (Bulk Data) of all Banks of the ME80P to or from another ME80P or sequencer, all at once.

(1) Transmitting Bulk Data

When you press No. Key 4 (Dump) again, after selecting this parameter, display will change from an stand-by display (- - -), to a count-up display (1 -128), and Bulk Data will be transmitted. When transmission has been completed, display will return to the stand-by display (- - -). Also, you need to know beforehand that this transmission will be routed from Merge OUT (MIDI OUT which is patched to Merge signal) of the Bank which was selected just before it entered the Set Up Mode.


transmitted when pressed again.
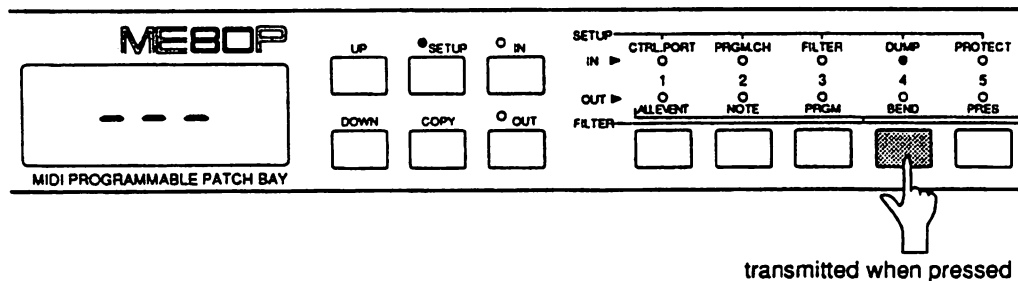
(2) Receiving Bulk Data

When you receive Bulk data from another ME80P after selecting this parameter, the display will change to a count-up display (the same as when transmitting) and Data will be loaded (Read). When loading has been completed, status returns to that of when Power is first turned ON. Also, please note that the bulk data is received at Control Port.

Parameter 5 : Assigning Protect ON/OFF

The Protect function is designed to safegaurd important data when it has been assigned ON, and when set to OFF, it's released. Assign Protect using the UP/DOWN Key.

ex. When assigning Protect ON/OFF

available value

OFF, ON
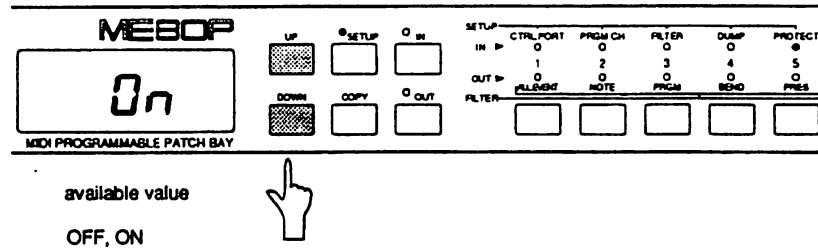
Protect can always be verified by the light of the Dot LED located on the lower right of the display.

Dot lit : Protect OFF   Dot unlit : Protect ON
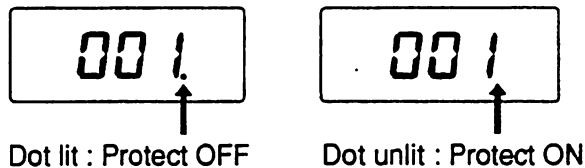
* When you are Patching or assigning each of the parameters, Protect should be turned OFF, if you try to change data while Protect is ON, the following message will blink twice in the display to warn any modification cannot be done. However, Data Dump can be performed regardless of whether Protect is assigned ON/OFF.
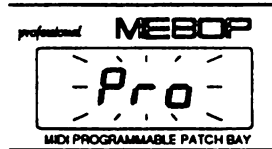
* Initial default setting for Protect is: OFF.

COPY MODE

In this mode, it is possible to copy a certain Bank's Patching Program to another Bank. Utilizing this function can be very convenient when setting new programs based on the programs made previously, or when re-organizing your programs sequences.
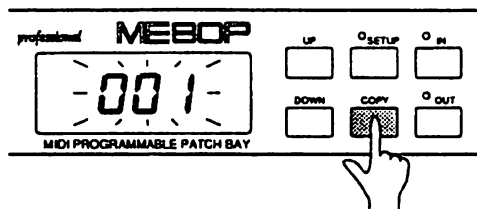
Copy using the following Steps:

Step 1   Selecting Bank to Copy From

First, select the Bank No. you wish to copy from, in the Bank Mode.

Step 2   Enter the Copy Mode

As you enter the Copy Mode by pressing the Copy Mode Key, the Bank No. (selected in Step 1) shown in the display will blink.

Step 3   Selecting Bank to Copy To

Select the Bank No. you want to copy to using the Up/Down Key, as the same as in the Bank Mode, but now, the display remains blinking.

Step 4   Perform Copy function

When you press the Copy Mode Key again, copying will be carried out, the blinking display changes to steadily lit, and it will automatically return to the Bank Mode.

## PATCH IN MODE

Assigning Merge Port

Merge Port is the INPUT for merging signals to Control Port, and it is posssible to assign any one of the MIDI IN's for each of the Banks (as explained on page 11). Assign Merge Port using the following steps:

Step 1   Enter the Patch IN Mode

Enter the Patch IN Mode by pressing the Patch IN Mode Key (to select any one of MIDI IN's).

Step 2   Selecting Merge Signal

Next, select the Merge Signal by pressing the No.10/0 Merge Key (LED lights up), the lit LED of MIDI IN will indicate which is the selected Merge Port, and blinking LED indicates the Control Port. Also, the LED(s) of MIDI OUT which the Merge signal is currently patched to will light up.

CONTROL PORT (blinking)

MERGE PORT (lighted)   MERGE SIGNAL LED will light up

MIDI OUT LED(s) which MERGE
SIGNAL is patched to will light up
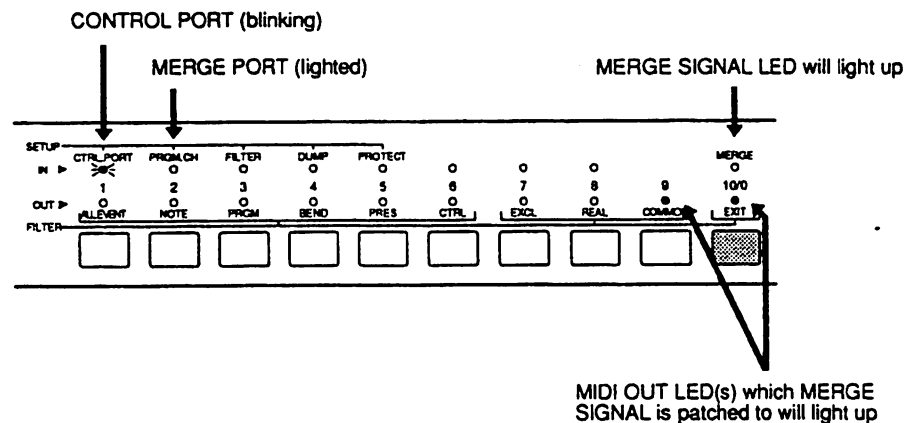
Step 3   Assigning Merge Port

When you press the No.10/0 Key again, Merge LED will blink and the MIDI OUT LED which was lit will now go OFF. Here, you assign Merge Port by pressing any one of the No.1-8 Keys.

* Also, if you press the No.10/0 Key again while in this status, you will return to Step 2.

PATCH OUT MODE

Panic Key Function

Basically, the Patch OUT Mode Key is used to enter the Patch OUT Mode, but it is also capable of transmitting the specific MIDI information in all MIDI channels (ch.1-16): ALL NOTES OFF and RESET ALL CONTROLLERS from All MIDI OUT Terminals. So, if such trouble as ceaseless sounding of connected MIDI instruments keep sounding, etc., occurs, simply press this key to stop it.

Version 1.0

ME80P DATA SHEET

BANK No.	MIDI OUT									
	1	2	3	4	5	6	7	8	9	10
M I D I I N 1	○	○	○	○	○	○	○	○	○	○
2	○	○	○	○	○	○	○	○	○	○
3	○	○	○	○	○	○	○	○	○	○
4	○	○	○	○	○	○	○	○	○	○
5	○	○	○	○	○	○	○	○	○	○
6	○	○	○	○	○	○	○	○	○	○
7	○	○	○	○	○	○	○	○	○	○
8	○	○	○	○	○	○	○	○	○	○
MERGE ( ) & ( )	○	○	○	○	○	○	○	○	○	○

CONTROL PORT	MIDI	IN	

MERGE PORT	MIDI	IN	

PROGRAM CHANGE	☐ ON	☐ OFF

MIDI FILTER	☐ ON	☐ OFF

MIDI CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. ALL EVENT																
2. NOTE																
3. PROGRAM CHANGE																
4. BEND																
5. PRESSURE																
6. CONTROL CHANGE																
7. EXCLUSIVE																
8. REAL TIME																
9. COMMON																

(MIDI EVENT)

SPECIFICATIONS

Connection Terminals

Inputs .... MIDI IN (DIN 5P)   x 8

Outputs .... MIDI THRU (DIN 5P) x 10

Bank Up/Down .... FOOT SWITCH (6.3mm Stereo Phone Jack) x1

Functions

Power Switch

Up/Down Key

Set Up Key

Copy Key

Patch IN Key

Patch OUT Key

Number Key

Display .... 3 digit/7 segment Red LED

Indicator .... Red LED x 22

Memory Bank 128

Power Supply AC120V 50Hz, 4.5W

              AC 220-240V 50Hz

Dimensions .... 482.6W x 47.7H x 284D (mm)

Weight 3Kg

* **Above specifications are subject to change without prior notice.**

ME80P MIDI IMPLEMENTATION CHART

Date : APR. 9 1991

Version : 1.00

Function		Transmitted	Recognized	Remarks
Basic	Default	1 - 16, OFF	1 - 16, OFF	Memorized
Channel	Changed	1 - 16, OFF	1 - 16, OFF	
	Default	X	OMNI OFF	
Mode	Messages	X	X	
	Altered	•••••	X	
Note		X	X	
Number	True Voice	•••••	X	
Velocity	Note on	X	X	
	Note off	X	X	
After	Key's	X	X	
Touch	Ch's	X	X	
Pitch Bender		X	X	
Control	0 - 120	X	X	
Change	121	O(*1)	X	121:Reset All Controllers
Program		X	0 - 127	
Change	True No.	•••••	0 - 127	
System Exclusive		O	O	AKAI ID : 47H
				ME80P ID : 53H
System :	Song position	X	X	
:	Song select	X	X	
Common :	Tune request	X	X	
System :	Clock	X	X	
Real time :	Commands	X	X	
Aux :	Local ON/OFF	X	X	
:	All Notes OFF	O(*1)	X	(123)
Messages:	Active Sense	X	X	
:	Reset	X	X	
Notes :	(*1) These messages will be output from MIDI OUT's that are patched to different MIDI IN's.			

Mode 1 : OMNI ON, POLY   Mode 2 : OMNI ON, MONO   O : Yes

Mode 3 : OMNI OFF, POLY   Mode 4 : OMNI OFF, MONO   X : No

MEMO